

## **470000**

### **Construction and Extraction Occupations**

#### **471000**

##### **Supervisors of Construction and Extraction Workers**

###### **47-1011 First-Line Supervisors of Construction Trades and Extraction Workers**

Directly supervise and coordinate activities of construction or extraction workers.

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#### **472000**

##### **Construction Trades Workers**

###### **47-2011 Boilermakers**

Construct, assemble, maintain, and repair stationary steam boilers and boiler house auxiliaries. Align structures or plate sections to assemble boiler frame tanks or vats, following blueprints. Assist in testing assembled vessels. Direct cleaning of boilers and boiler furnaces. Inspect and repair boiler fittings.

###### **47-2021 Brickmasons and Blockmasons**

Lay and bind building materials, such as brick, concrete block, and structural tile, with mortar and other substances to construct or repair walls and other structures. Installers of mortarless segmental concrete masonry wall units are classified in "Landscaping and Groundskeeping Workers."

###### **47-2022 Stonemasons**

Build stone structures, such as piers, walls, and abutments. Lay walks, curbstones, or special types of masonry for vats, tanks, and floors.

###### **47-2031 Carpenters**

Construct, erect, install, or repair structures and fixtures made of wood, such as concrete forms; building frameworks, including partitions, joists, studding, and rafters; and wood stairways, window and door frames, and hardwood floors. May also install cabinets, siding, drywall and batt or roll insulation. Includes brattice builders who build doors or brattices (ventilation walls or partitions) in underground passageways.

###### **47-2041 Carpet Installers**

Lay and install carpet from rolls or blocks on floors. Install padding and trim flooring materials. Excludes "Floor Layers, Except Carpet, Wood, and Hard Tiles."

###### **47-2042 Floor Layers, Except Carpet, Wood, and Hard Tiles**

Apply blocks, strips, or sheets of shock-absorbing, sound-deadening, or decorative coverings to floors.

###### **47-2043 Floor Sanders and Finishers**

Scrape and sand wooden floors to smooth surfaces using floor scraper and floor sanding machine, and apply coats of finish

###### **47-2044 Tile and Marble Setters**

Apply hard tile, marble, and wood tile to walls, floors, ceilings, and roof decks.

###### **47-2051 Cement Masons and Concrete Finishers**

Smooth and finish surfaces of poured concrete, such as floors, walks, sidewalks, roads, or curbs using a variety of hand and power tools. Align forms for sidewalks, curbs, or gutters; patch voids; and use saws to cut expansion joints. Installers of mortarless segmental concrete masonry wall units are classified in "Landscaping and Groundskeeping Workers."

###### **47-2053 Terrazzo Workers and Finishers**

Apply a mixture of cement, sand, pigment, or marble chips to floors, stairways, and cabinet fixtures to fashion durable and decorative surfaces.

###### **47-2061 Construction Laborers**

Perform tasks involving physical labor at construction sites. May operate hand and power tools. May clean and prepare sites, dig trenches, set braces to support the sides of excavations, erect scaffolding, and clean up rubble, debris and waste. May assist other craft workers. Construction laborers who primarily assist a particular craft worker are classified under "Helpers, Construction Trades."

###### **47-2071 Paving, Surfacing, and Tamping Equipment Operators**

Operate equipment used to apply concrete, asphalt, or other materials to road beds, parking lots, or airport runways, or equipment used for tamping gravel, dirt, or other materials. Includes concrete and asphalt paving machine operators, form tampers, tamping machine operators, and stone spreader operators.

**47-2072 Pile-Driver Operators**

Operate pile drivers mounted on skids, barges, crawler treads, or locomotive cranes to drive pilings for retaining walls, bulkheads, and foundations of structures.

**47-2073 Operating Engineers and Other Construction Equipment Operators**

Operate construction equipment such as bulldozers or front-end loaders to excavate, move, and grade earth, erect structures, or pour concrete or other hard surface pavement. May repair and maintain equipment in addition to other duties. Excludes "Crane and Tower Operators."

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**47-2081 Drywall and Ceiling Tile Installers**

Apply plasterboard or other wallboard to ceilings or interior walls of buildings. Apply or mount acoustical tiles or blocks, strips, or sheets of shock-absorbing materials to ceilings and walls of buildings. Materials may be decorative. Includes lathers who fasten lath to walls, ceilings, or partitions of buildings to provide support base for plaster, fire-proofing, or acoustical material.

**47-2082 Tapers**

Seal joints between plasterboard or other wallboard to prepare wall surface for painting or papering.

**47-2111 Electricians**

Install, maintain, and repair electrical wiring, equipment, and fixtures. Ensure that work is in accordance with relevant codes. Excludes "Security and Fire Alarm Systems Installers."

**47-2121 Glaziers**

Install glass in windows, skylights, store fronts, and display cases, or on surfaces, such as building fronts, interior walls, ceilings, and tabletops.

**47-2131 Insulation Workers, Floor, Ceiling, and Wall**

Line and cover structures with insulating materials. May work with batt, roll, or blown insulation materials.

**47-2132 Insulation Workers, Mechanical**

Apply insulating materials to pipes or ductwork, or other mechanical systems.

**47-2141 Painters, Construction and Maintenance**

Paint walls, equipment, buildings, bridges, and other structural surfaces, using brushes, rollers, and spray guns. May remove old paint to prepare surface prior to painting. May mix colors or oils to obtain desired color or consistency. Excludes "Paperhangers."

**47-2142 Paperhangers**

Cover interior walls or ceilings of rooms with decorative wallpaper or fabric, or attach advertising posters on surfaces such as walls and billboards. May remove old materials or prepare surfaces to be papered.

**47-2151 Pipelayers**

Lay pipe for storm or sanitation sewers, drains, and water mains. Perform any combination of the following tasks: grade trenches or culverts, position pipe, or seal joints. Excludes "Welders, Cutters, Solderers, and Brazers."

**47-2152 Plumbers, Pipefitters, and Steamfitters**

Assemble, install, alter, and repair pipelines or pipe systems that carry water, steam, air, or other liquids or gases. May install heating and cooling equipment and mechanical control systems. Includes sprinklerfitters.

**47-2161 Plasterers and Stucco Masons**

Apply interior or exterior plaster, cement, stucco, or similar materials. May also set ornamental plaster.

**47-2171 Reinforcing Iron and Rebar Workers**

Position and secure steel bars or mesh in concrete forms in order to reinforce concrete. Includes rod busters.

**47-2181 Roofers**

Cover roofs of structures with shingles, slate, asphalt, aluminum, wood, or related materials. May spray roofs, sidings, and walls with material to bind, seal, insulate, or soundproof sections of structures.

**47-2211 Sheet Metal Workers**

Fabricate, assemble, install, and repair sheet metal products and equipment. Includes sheet metal duct installers who install prefabricated sheet metal ducts used for heating, air conditioning, or other purposes.

**47-2221 Structural Iron and Steel Workers**

Raise, place, and unite iron or steel girders and other structural members to form completed structures or frameworks. May erect metal storage tanks and assemble prefabricated metal buildings. Excludes "Reinforcing Iron and Rebar Workers."

**47-2231 Solar Photovoltaic Installers**

Assemble, install, or maintain solar photovoltaic (PV) systems. May measure, cut, assemble, and bolt structural framing and solar modules. May perform minor electrical work such as current checks. Excludes solar thermal installers, who are included in "Plumbers, Pipefitters, and Steamfitters," and solar PV electricians, who are included in "Electricians."

**473000****Helpers, Construction Trades****47-3011 Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters**

Help brickmasons, blockmasons, stonemasons, or tile and marble setters by performing duties requiring less skill. Apprentice workers are classified with the appropriate skilled construction trade occupation.

**47-3012 Helpers--Carpenters**

Help carpenters by performing duties requiring less skill. Use, supply, or hold materials or tools, and clean work area and equipment. Apprentice workers are classified with the appropriate skilled construction trade occupation.

**47-3013 Helpers--Electricians**

Help electricians by performing duties requiring less skill. Use, supply, or hold materials or tools, and clean work area and equipment. Apprentice workers are classified with the appropriate skilled construction trade occupation.

**47-3014 Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons**

Help painters, paperhangers, plasterers, or stucco masons by performing duties requiring less skill. Use, supply, or hold materials or tools, and clean work area and equipment. Apprentice workers are classified with the appropriate skilled construction trade occupation.

**47-3015 Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters**

Help plumbers, pipefitters, steamfitters, or pipelayers by performing duties requiring less skill. Use, supply, or hold materials or tools, and clean work area and equipment. Apprentice workers are classified with the appropriate skilled construction trade occupation.

**47-3016 Helpers--Roofers**

Help roofers by performing duties requiring less skill. Use, supply, or hold materials or tools, and clean work area and equipment. Apprentice workers are classified with the appropriate skilled construction trade occupation.

**47-3019 Helpers, Construction Trades, All Other**

All construction trades helpers not listed separately.

**474000****Other Construction and Related Workers****47-4011 Construction and Building Inspectors**

Inspect structures to determine structural soundness and compliance with building codes, and other regulations. Inspections may be general in nature or may be limited to a specific area, such as electrical systems or plumbing.

**47-4021 Elevator Installers and Repairers**

Assemble, install, repair, or maintain electric or hydraulic freight or passenger elevators, escalators, or dumbwaiters.

**47-4031 Fence Erectors**

Erect and repair fences and fence gates, using hand and power tools.

**47-4041 Hazardous Materials Removal Workers**

Identify, remove, pack, transport, or dispose of hazardous materials. Specialized training and certification in hazardous materials handling or a confined entry permit are generally required. May operate earthmoving equipment or trucks.

**47-4051 Highway Maintenance Workers**

Maintain highways, roads, airport runways, and rights-of-way. Patch broken or eroded pavement and repair guard rails, highway markers, and snow fences. May also mow or clear brush from along road or plow snow from road.

**47-4061 Rail-Track Laying and Maintenance Equipment Operators**

Lay, repair, and maintain track for standard or narrow-gauge railroad equipment used in regular railroad service or in plant yards, quarries, sand and gravel pits, and mines. Includes ballast cleaning machine operators and railroad bed tamping machine operators.

**47-4071 Septic Tank Servicers and Sewer Pipe Cleaners**

Clean and repair septic tanks, sewer lines, or drains. May patch walls and partitions of tank, replace damaged drain tile, or repair breaks in underground piping.

**47-4091 Segmental Pavers**

Lay out, cut, and place segmental paving units. Includes installers of bedding and restraining materials for the paving units.

**47-4099 Construction and Related Workers, All Other**

All construction and related workers not listed separately.